

# energized

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THE MONTHLY NEWSLETTER FOR ENERGY MANAGERS AND PUBLIC AFFAIRS OFFICERS

Issue 10

## Message to Energy Managers

It's a lot easier these days to be green, thanks to a number of government agency initiatives. In this issue are some of the major efforts underway that will make it easier for you to procure energy-efficient, water-conserving, and sustainable products and services.

The Defense Logistics Agency (DLA) has added an Environmental Attribute or Characteristic code (ENAC) to the Federal Logistics Information System. ENAC identifies environmentally preferable products that meet strict, environmental standards from an approved environmental organization.

If you have problems procuring state-of-the-art products due to procurement officials who believe that they cost more or are not widely available, refer them to the regulations, legislation, and executive orders on page 2 that direct the Department of the Navy to procure efficient products and services.

DLA General and Industrial Lighting Program helps you to procure the latest high efficiency lighting products. Training and product demonstrations on various types of lighting are also available.

Thanks to a joint effort by the U.S. Department of Energy and the DLA with air conditioning manufacturers, you can now purchase higher efficiency rooftop air conditioners at affordable prices.

## Energy Awareness Week



Remember, Energy Awareness Week starts 27 October. You will receive your materials in early October. And look for photos of the SECNAV Energy Award winners in the next issue of *energized*.

## Environmental Attribute

The Defense Logistics Agency (DLA), working with the military services and other Federal agencies, has added an Environmental Attribute or Characteristic code (ENAC) to the Federal Logistics Information System (FLIS). ENAC identifies products that are environmentally preferable over other similar products.

ENAC signifies that a product meets strict, definable environmental standards and criteria from an approved environmental organization. Military customers worldwide can buy Environmentally Preferable Products from DLA with the confidence of knowing that ENAC criteria has been reviewed and approved by a consensus of the military services and Federal agencies through the DLA-chaired Joint Group on Environmental Attributes.

Information about the DLA Environmentally Preferable Products program can be found on the Environmentally Preferable Products home page: <http://www.dlis.dla.mil/epp/>. Click on the EPP icon to shop or browse online for

Environmentally Preferable Products in a convenient pop-up window, or e-mail a request to [environmental@dlis.dla.mil](mailto:environmental@dlis.dla.mil).

Current DLA-approved environmental attributes include:

- Environmental Protection Agency Comprehensive Procurement Guideline Recycled Content Products
- Department of Energy (DOE) Energy-Efficient Product Guidelines
- DOE Water Conserving Products Guidelines
- California Low Volatile Organic Compound Product Guidelines
- Federal Energy Management Program Low Standby Power Guidelines: Products that use minimal power when in a Low Standby mode, as outlined in Executive Order 13221 (a new ENAC recently added to the FLIS)

*Excerpted from the EPP home page and "DLA Environmentally Preferable Products Program," Spring/Summer 2003 LogLines, by Steven J. Harris, Environmentally Preferable Products Program Manager.*

DON Energy Awareness Website: Access the tools on the Navy Energy website for ideas, planning tips, and tools. Set your browser to <<http://energy.navy.mil>> and scroll down the left-hand column to the Awareness pick.

## Stick to Your Guns and Point it Out!

**D**o you ever have problems procuring state-of-the-art efficient products because procurement officials you work with say they cost more or are not as widely known or available? Emphasize that the following regulations, legislation, and executive orders all direct the Department of the Navy to procure efficient products and services.

### Federal Acquisition Regulations (FAR)

Effective December 2001, Part 23 of Federal Acquisition Regulations (48 CFR Part 23) has been approved to include purchasing requirements for ENERGY STAR® products and products with Federal Energy Management Program (FEMP)-designated efficiency levels.

### Energy Policy Act of 1992

The Energy Policy Act of 1992 (EPAct) directs the Department of Energy, in association with other agencies, to "identify and designate those energy-efficient products that offer significant potential savings." EPAct also calls for "guidelines to encourage the acquisition and use (of these products) by all Federal agencies."

### Executive Order 13123

Executive Order 13123 directs Federal agencies to select ENERGY STAR-labeled products or, for product groups where ENERGY STAR programs do not yet exist, "products that are in the upper 25% of energy efficiency as designated by FEMP."

### Executive Order 13221

Executive Order 13221 directs Federal agencies to purchase products that use minimal standby power when possible.

For more information, set your browser to: [http://www.eere.energy.gov/femp/procurement/fed\\_policies.html](http://www.eere.energy.gov/femp/procurement/fed_policies.html)

# "We Never Leave Our Customers in the Dark"

## DLA General and Industrial Lighting Program

**A**s you well know, progress in the lighting industry has been staggering over the last two decades and this innovation does not appear to be letting up anytime soon. How do you keep up with the latest lighting products, and better yet, how do you procure the latest high efficiency products? Look to the Defense Logistics Agency (DLA) General and Industrial Lighting Program to help you on both of these fronts.

DLA's Defense Supply Center Philadelphia (DSCP) offers to its customers a training and product demonstration on the many different types of lighting available. This program, provided as a combined PowerPoint and hands-on demonstration, is available free of charge. All it requires is your time to make the arrangements and provide the audience.

For additional information or to make arrangements for a presentation of this program contact: DSCP Lighting Team, at 800-352-2852, option 3, or 215-737-7789.

The Lighting Program Web site <http://www.dscp.dla.mil/gi/general/light1.htm> features a Product of the Month. In July, when this article was written, the featured product was the Berkeley Lamp. Developed by DOE's Lawrence Berkeley National Laboratory, this lamp uses two independently controllable and fully dimmable compact fluorescent lamps (CFL). One CFL is directed downward, for task lighting. The other CFL directs light upward, providing high-quality indirect lighting. The lamps are separated by an optical "septum" allowing three modes of operation: task lighting only, ambient lighting only, or both simultaneously. The dimmer switches allow the user total control over the amount of light needed for a task.

The Web site also contains DLA's online lighting catalog. In addition to the energy-efficient products you are used to procuring, such as T-8 and electronic ballasts and low-mercury fluorescents, the catalog contains a host of cutting-edge lighting products, including dimmable and non-dimmable CFL down light retrofit kits, induction lighting, and "coming soon" fiber-optic lighting. Remember to check out the LED lighting products. No longer confined to street light and exit sign applications, the catalog offerings demonstrate the rapid advancements in this technology. Light strips and medium-base A, G, S, par series, and non-conventional-type LED bulbs are available for decorative lighting, signage, computer work stations, night lights, and a wide range of other applications. The LED lighting revolution is clearly underway!



## Buying Energy-Efficient Products

**A**s the world's largest volume-buyer of energy-related products, the Federal Government can reduce energy consumption and achieve enormous cost savings by purchasing energy-efficient products. Federal buyers are directed by FAR Part 23 and Executive Orders 13123 and 13221 to purchase products that are ENERGY STAR®-labeled or products that are designated to be in the upper 25% of energy efficiency in their class as well as products with low standby power. The EPA/DOE ENERGY STAR program [[www.energystar.gov](http://www.energystar.gov)], FEMP's Buying Energy-Efficient Products program [[www.eere.energy.gov/femp/procurement/](http://www.eere.energy.gov/femp/procurement/)] and DLA's Environmentally Preferable Products Program [[www.dlis.dla.mil/epp/](http://www.dlis.dla.mil/epp/)] help Federal purchasers identify these types of highly efficient products.

## DOE Program Offers Lowest Cost Life-Cycle Air Conditioners

*A special procurement makes five high-efficiency models available at advantageous prices.*

The U.S. Department of Energy (DOE) and the Defense Logistics Agency (DLA) have joined forces with air conditioning manufacturers to bring higher efficiency rooftop air conditioners to the market. Through the Unitary Air Conditioner Technology Procurement, buyers from the public and private sectors can now purchase these rooftop units at prices that would otherwise require a multiple-unit order.

Manufactured by Global Energy Group and Lennox Industries, the unitary air conditioners were selected via

ranging from 88,000 to 120,000 Btu per hour, and Energy Efficiency Ratios (EER) ranging from 11.0 to 13.5.

DOE selected the models after developing a detailed set of minimum specifications. The life-cycle cost analysis involved a cost-effectiveness rating formula that balanced the initial price of equipment against expected energy costs, taking into account typical weather conditions and both full- and part-load efficiencies.

The units were also required to meet specifications that go beyond

energy efficiency, including a direct digital control interface, fully insulated cabinet panels where conditioned air is handled to prevent condensation and minimize sound transmission, blower assemblies that slide out of the unit for easy servicing,

and safety guards on fans. This is just a small example of the specifications.

A cost estimator tool, initially developed by PNNL to evaluate proposals, is available to potential buyers on the Unitary Air Conditioner website at [www.pnl.gov/uac/](http://www.pnl.gov/uac/). This tool helps buyers select optimal equipment by comparing the energy and economic performance of high-efficiency and standard-efficiency air conditioners under varying conditions.

Federal Government buyers order through DLA by calling (215)737-7940 or (215)737-8048.

Prospective buyers can get additional information on shipping, technical specifications, and design features at <http://www.pnl.gov/uac/products.stm#list> or by contacting the manufacturers directly.

### Unitary Air Conditioning Packaged Units

#### Lennox Industries, Inc.

Model	Btu/hr	EER
LCA090H	90,000	11.3
LCA102H	101,000	11.2
LCA120H	120,000	11.0

#### Global Energy Group

PH007C	88,000	13.5
PH010C	115,000	13.4

The winning Global units are new to the market—introduced directly in response to the RFP.

“These air-conditioners are at least 20% more energy-efficient than standard units now in use in many commercial buildings,” says Brad Hollomon, program manager with Pacific Northwest National Laboratory (PNNL), which is administering the program on behalf of DOE and DLA. “The units meet or exceed the Environmental Protection Agency’s ENERGY STAR® efficiency levels, Federal Energy Management Program recommendations, and Tier 2 levels established by the Consortium for Energy Efficiency’s High-Efficiency Commercial Air Conditioning initiative.”

The Unitary Air Conditioning procurement offers five different packaged units, with cooling capacities

## ENERGY STAR® is Everywhere

Did you know that ENERGY STAR® recognizes energy-efficient models in all of the following categories—from lighting to computers to water coolers? Check them out at [http://www.energystar.gov/index.cfm?c=products.pr\\_index](http://www.energystar.gov/index.cfm?c=products.pr_index).

### Appliances

Clothes Washers  
Dehumidifiers  
Dishwashers  
Refrigerators  
Air Conditioning (AC): Room

### Heating & Cooling

Air-source Heat Pumps  
Boilers  
Central AC  
Ceiling Fans  
Dehumidifiers  
Ducts  
Furnaces  
Geothermal Heat Pumps  
Insulation/Air Sealing  
Light Commercial  
Programmable Thermostats  
Room AC  
Ventilating Fans

### Home Electronics

Answering Machines & Cordless Phones  
DVD & Home Audio  
Set-Top Boxes  
TVs & VCRs

### Lighting

Compact Fluorescent Light Bulbs (CFLs)  
Residential Light Fixtures  
Ceiling Fans  
Exit Signs  
Traffic Signals

### Office Equipment

Computers  
Copiers  
Faxes  
Monitors  
Multifunction Devices  
Printers  
Scanners  
Water Coolers

### Other

Commercial Solid Door Refrigerators & Freezers  
Exit Signs  
Roof Products  
Traffic Signals  
Transformers  
Water Coolers  
Windows, Doors, & Skylights



## Issue Alert: FAR Amendment on Energy-Efficient Standby Devices

On 24 July 2003, the General Services Administration, in conjunction with the Department of Defense and the National Aeronautics and Space Administration, published a final rule on the acquisition of energy-efficient standby power devices in the Federal Register. The rule states that an agreement on a final rule has been reached between the Defense Acquisition Regulations Council and the Civilian Agency Acquisition Council. The rule amends section 23.203–Energy Efficient Products of Federal Acquisition Regulation. Please refer to FEMP's Energy-Efficient Products website at <http://www.eere.energy.gov/femp/procurement>.

### Sleep Mode vs. Low Standby Mode

All ENERGY STAR®-labeled computers, monitors, copiers, printers, and fax machines will switch into a “sleep” mode after a specified period of non-use. When needed, these devices return automatically to the active mode (displaying an image, copying, receiving a fax, etc.) after a brief delay. Standby mode is different because the user—not the machine itself—has switched off the device and must manually turn it back on. Power use in standby mode is usually much lower than in sleep mode.

### Standby Mode Savings

As a general rule of thumb for Federal agencies, each watt saved in standby power is worth about \$1.25 in lower energy operating costs over the life of the product. For example, an agency buying 200 low-standby monitors (at 1 watt instead of 3 watts) will save \$500 over the life of the monitors. This assumes an average of 6,000 hours per year in standby (“off”) mode and a typical product life of four years. Generally, low standby power is not associated with higher purchase price.

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## Watts News?

**We want to hear from you.**

*Tell us about the energy initiatives you're working on, the problems you encounter, and the solutions you discover.*

Submit article ideas, comments, or questions to:

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*Be sure to include your name and commercial phone number.*

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